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MPsrch_pp protein - protein database search, using Smith-Waterman algorithm

Run on: Sat May 13 10:39:20 2000; MasPar time 4.08 Seconds 273.006 Million cell updates/sec

Tabular output not generated.

Description: Derfect Score: Title: >US-09-331-631-7 (34-80) from US09331631.pep (2 of 3) 361

Sequence: 1 YERDPRQQYEQCQRRCESEATEEREQEQCEQRCEREYKEQQRQQEEE 47

Scoring table: PAM 150 Gap 11

Searched: 188963 segs, 23686106 residues

Post-processing: Minimum Match 0% Listing first 45 summaries

Database: a-geneseq35 1:geneseqp

Statistics: Mean 22.631; Variance 99.788; scale 0.227

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

45	44	43	42	41	40	39	38	37	36	35 5	34	ω ω			30		28		26		24
77	77	77	77	78	78	80	80	81	81	82	82	82	82	83	83	83	83	84	84	84	85
21.3	21.3					22.2		22.4	22.4	22.7	22.7	22.7	22.7		23.0		23.0				23.5
711	711	705	217	1235	432	371	303	614	614	567	83	76	76	1048	1048	971	593	637	489	409	190
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W07692	W82789	R66597	W46424	R65158	W93954	W73369	R60054	W22149	W62834	W88788	R90546	R90536	R90555	R20637	W27277	W48896	W62835	W62837	W90341	W90342	R91710
Macrophage stimulating	Human MSP protein.	Human L5/3 tumour supp	Human macrophage stimu	Potassium ion channel	Human regulatory molec	Epitope tagged TBP pro	Dirofilaria immitis pa	Peanut allergen Ara hI	Arachis hypogaea antim	Polypeptide fragment e	pJG4-5-CDK-BP clone de	pJG4-5-CDK-BP clone #3	pJG4-5-CDK-BP clone #2	Human Cytomegalovirus	Human cytomegalovirus	Candida albicans CaCLA	Zea mays antimicrobial	Hordeum vulgare antimi	G. max SBP2 protein.	G. max truncated SBP2	AceNAP4.
2.93e+01	2.93e+01	2.93e+01	2.93e+01	2.45e+01	2.45e+01	1.72e+01	1.72e+01	1.44e+01	1.44e+01	1.20e+01	1.20e+01	1.20e+01	1.20e+01	1.00e+01	1.00e+01	1.00e+01	1.00e+01	8.38e+00	8.38e+00	8.38e+00	7.00e+00

ALIGNMENTS

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34 YERDPROQYEQCORRCESEATEEREQEQCEQRCEREYKEQQRQQEEE 80	Query Match 100.0%; Score 361; DB 1; Length 525; Best Local Similarity 100.0%; Pred. No. 1.51e-24; Matches 47; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	M62831; standard; Protein; 525 AA. W62831; standard; Protein; infestation; control. Theobroma cacao. Theobroma cacao. W09827805-A1. 02-UL-1998. 22-DEC-1996; AU-004275. (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY. (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY. BOWER NI, Goulter KC, Green JL, Manners JM, Marcus JP; WPI; 98-377279/32. BOWER ANTI-microbial protein from e.g. Macadamia integrifolia - useful for controlling microbial infestations of plants or mammals The sequence is that of an antimicrobial protein which can be used to control microbial infestations in plants and mammalian animals. Sequence 525 AA;

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Best Local
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antimicrobial protein anti
Macadamia
                                                                                       Macadamia integrifolia antimicrobia antimicrobial protein; infestation;
                                                                                                              W62829;
27-OCT-1998 (first entry)
                                                                                                                                                                                                                                                                                         Novel anti-microbial protein from e.g. Macadamia integrifolia useful for controlling microbial infestations of plants or man Claim 1; Page 43-45; 96pp; English.

The sequence is that of an antimicrobial protein which can be used to control microbial infestations in plants and mammal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              expression vectors
Claim 4: Fig 2: 59pp; English.
The inventors claim a 67 kD and 31 kD T. cacao protein, and
fragments, and encoding DNAs. The 47 kD and 31 kD proteins are
derived from the 67 kD precursor. T. cacao protein cDNA was
detected in a cDNA library prepared from immature cocoa beans RNA
using a probe based on the AA sequence of a CNBr peptide common to
the 47 kD and 31 kD polypeptides. Homology searches revealed close
homologies between the 67 kD polypeptide and the vicilins, which are
seed storage proteins.
02-JUL-1998
           WO9827805-A1.
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Bower NI, Goulter KC,
WPI; 98-377279/32.
                                                                   Key
                                                                             Macadamia
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W62830;
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Similarity 59.1%;
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Similarity 100.0%;
47; Conservative
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Pred. No. 1.51e-24;
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02-JUL-1998.
02-JUL-1998.
22-DEC-1997; AU0874.
20-DEC-1996; AU-004275.
(RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
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22-DEC-1997; AU0874.
20-DEC-1996; AU-004275.
(RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
(RETR-) COOP RES CENT TROPICAL Manners JM, Mar
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The sequence is that of an antimicrobial protein which be used to control microbial infestations in plants and animals.
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WO9827805-A1.
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27-OCT-1998 (first entry)
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20-DEC-1996; AU-004275.
20-DEC-1996; AU-004275.
(RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY BOWER NI, Goulter KC, Green JL, Manners JM, Ma
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26; Conser
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9; Mismatc
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5.45e-11;
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(RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
BOWER I, GOULTER KC, Green JL, Manners TV
WPI: 98-377279/32.
NOVEL anti---
                                                                                                                                                                                                                                                                                                                                                                                           04-DEC-1997.
02-JUN-1997; U09553.
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This is a Precis coenia (butterfly) patched (ptc) protein and the encoding DNA can be used to construct an expression cassette comprising an altered patch or hedgehog gene. The expression cassette comprises a nucleic acid encoding a patched protein other than a Drosophila melanogaster patched protein, or fragment of at least 12 nucleotides in
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antimicrobial protein; infestation; control
                                                                                                                                                                                                                      Patched protein other than Drosophila melanogaster patched protein used for characterising the phenotype of a tumour Claim 2; Pages 52-55; 86pp; English.
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The sequence is that of an antimicrobial protein which
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PT Nucleic acide encoding vertebrate patched protein and related transformants - used to express poly; peptide(s), useful for diagnosis and treatment of developmental disorders or cancer, and in healing of injured tissue

PT diagnosis and treatment of developmental disorders or cancer, and in healing of injured tissue

PS Example: Column 25-32; 38pp; English.

The present invention describes vertebrate and invertebrate patched (ptc)

The present invention describes vertebrate and invertebrate patched (ptc)

The present invention of the protein. These in turn are used for the recombinant production of the protein. These in turn are useful: (i) for generating antibodies (Ab); and (ii) to screen for specific-binding contains (potential therapeutic agonists and antagonists). The ptc gene, or its fragments, are used to isolate related sequences from other mammals; to identify mutations (particularly those associated with genetic diseases such as spina bifida and other developmental disorders); to monitor expression levels in testis (to determine relationship with sperm production) and to isolate 5'-non-coding sequences (used to study embryonic development and to provide regulated expression of proteins). The complete gene can be used in gene therapy, including expression of antisense molecules, and to generate transgenic animals for studies of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              detecting antibody binding to abnormal patched protein, a genetic predisposition to developmental abnormalities and cancer can be diagnosed. This analysis can also be used for characterising the phenotype of a tumour, particularly a carcinoma, especially a basal cell carcinoma. The methods can also be used for characterising transitional cell carcinoma of the bladder, meningiomas medulloblastomas, etc. The modified cells comprising the expression cassette can be used to determine the role of different exons of the patched gene in oncogenesis, signal transduction, etc. Transgenic animal models created from these cells can be used as animal models for carcinomas of the skin. The patched protein of mosquito, butterfly or beetle or alternatively, a mammalian patched protein of human or mouse can be used to identify ligands or substrates that bind to, modulate, or mimic the action of patched gene. These agents could be used as tumour suppressors, cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   length, of a tra
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  mammalian cell comprising this expression cassette as an extrachromosomal element or integrated into the genome of the cell can be predisposed to develop basal cell carcinoma as a result of the transfection. By analysing DNA, functional analysis of patched protein function, or by
                                                                                                                                                                                                                                                                                                                                                                                                                                                       06-0CT-1995; 540406.

06-0CT-1995; US-540406.

07-0CT-1994; US-319745.

(STRD ) UNIV LELAND STANFORD JUNIOR.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        W72971;
26-JAN-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     W72971 standard;
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Sequence 1311 AA;
                                                                                                                                                                                                                                                                                                                                                                                                               Goodrich LV, Johnson RL, WPI; 99-023461/02.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Misc_difference
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sperm production;
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908
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                                                                                                                                                                                                                                                                                                                                                                                                                  Scott MP;
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Pred. No.
21; Misma
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New cytokine as interferon-gamma antagonist - inhibits induction of class II histocompatability antigens on cell surface by IFN-gamma, for treating and preventing auto:immune disorders Claim 1; Fig 1; 44pp; French.

The new cytokine specifically inhibits induction by gamma interferon of the expression of class II histocompatibility antigens on cell surfaces. It is naturally secreted by cells which are difficult or impossible to induce with gamme-interferon, e.g. the leukaemia line K562, from which it can be isolated. To isolate DNA, a K562 gene bank was constructed in lambda gtll phage, used to transform Y1090 bacteria and these screened for reactivity with MAbs specific for the cytokine.Positive colonies were purified, their inserts isolated with EcoRI and subcloned into pBLSCR KS. Recombinant plasmids were used to transform HBD1 cells and the insert from one positive clone sequenced. This insert was recloned in vector CDMS and recombinants used to transform COS cells. The transformants expressed functional
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
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Best Local Similarity
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Trypanosoma cruzi antigen.
Antigen; epitope; vaccine; protective immunity; Chagas disease; diagnosis; therapy; immunoassay.
                                                                                                                                                      W26536 standard; Protein; 186 W26536;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      embryonic development. Ab are used diagnostically to determine the ptc protein on cell surfaces and as competitive inhibitors of signal transduction through the ptc ligand. Cells that have been engineered to express the ptc protein can be used to promote regrowth and healing of damaged tissue (e.g. growth of new teeth) and regulation of the ptc protein expression may be useful in cancer treatment (it may control the Wnt-1 oncogene). The present sequence represents Precis coenia (butterfly) patched amino acid sequence, from the present invention. Sequence 1311 AA;
                                                                                                                              12-JAN-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence of a new cytokine which inhibites induction by gamma interferon of expression of Class II histocompatibility antigens. Cytokine; interferon-gamma antagonist; autoimmune disease therapy; transplants; Class II histocompatibility antigens;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  used to transform COS cells. recombinant cytokine.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               10-JUN-1993.
02-DEC-1992; F01123.
02-DEC-1991; FR-014908
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                                                                                                                                                                                                                                                                                                                   ERDPRQQYEQCQRRCESEATEEREQEQCEQRCEREYKEQQRQQEEE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            16;
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21.78;
                                                                                                                       entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 97; DB 1;
Pred. No. 7.72e-01
17; Mismatches 1
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Pred. No. 6.40e-01
21; Mismatches 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PT Diagnosing Trypanosoma cruzi infection by detecting antibodies to provel antigens - which are useful in vaccines to provide protective immunity against Chagas' disease Disclosure; Page 70-71; 110pp; English.

This polypeptide sequence comprises a Trypanosoma cruzi full-length artigen. T. cruzi antigens (see W36530-41), and epitope-containing repeat sequences (see W1904-4102, W19079-86 and W36542-44) of native T. cruzi antigens, have been identified by sequencing genomic DNA and cDNA clones (see T69151-72) isolated from T. cruzi expression libraries by screening with sera from infected patients. The antigens can be expressed in transformed or transfected host cells. They can be used in a variety of immunoassays for detecting T. cruzi infection in a blood, serum, plasma, saliva, cerebrospinal C fluid or urine sample. They are also useful in vaccines and compositions for inducing protective immunity against C Chagas disease.
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Best Local S
Matches 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ancylostoma caninum.
W09612021-A2.
25-APR-1996.
17-OCT-1995; U13231.
18-OCT-1994; US-326110.
05-JUN-1995; US-486399.
05-JUN-1995; US-461965.
05-JUN-1995; US-465380.
Claim 221; Fig 13F; 243pp; English.

Proteins with anticoagulant and/or serine protease inhibit blood activity, isolated from nematodes, are useful to inhibit blood coagulation. The proteins can be added to blood collection tubes defining the collection of mammalian plasma. They are also useful to prevent or inhibit thrombosis, and may be given alone or in combination with other therapeutic or in vivo diagnostic agents. The proteins can serve as immunogens to raise antibodies for use in the diagnosts and identification of NAP conce. levels in biological fluids, e.g. to detect mammalian infection with a parasitic worm. They can also be used as immunogens in prophylactic and therapeutic vaccines against parasitic worm infection. The proteins may
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W09718475-A1.
22-MAY-1997.
14-NOV-1996; U18624.
                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 96-222007/22.
N-PSDB; T12957.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (CORY-) CORVAS INT INC
Bergum PW, Gansemans \
Lauwereys MJ, Messens
Vlasuk GP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AcaNAP; HpoNAP; NamNAP; AceNAP; AduNAP; anticoagulant; nematode-extracted anticoagulant protein; serine protease; nematode; thrombosis; parasitic worm.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 R91711 standard; Protein; 181
R91711;
17-NOV-1996 (first entry)
                                                                                                                                                                                                                                                                                                                                                              coagulation
                                                                                                                                                                                                                                                                                                                                                                                      Proteins with anticoagulant and/or serine protease inhibitory activity - isolated from nematodes and useful to inhibit blood
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nes 16; Conser
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             186 AA;
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J, Messensjhl,
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Moyle M, Stanssens PEH;
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17-OCT-1995; U13231.
18-OCT-1994; US-326110.
05-JUN-1995; US-461365.
05-JUN-1995; US-461965.
05-JUN-1995; US-463807.
05-JUN-1995; US-463380.
(CORV-) CORVAS INT INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Proteins with anticoagulant and/or serine protease inhibitory activity, isolated from nematodes, are useful to inhibit blood coagulation. The proteins can be added to blood collection tubes defining the collection of mammalian plasma. They are also useful to prevent or inhibit thrombosis, and may be given alone or in combination with other therapeutic or in vivo diagnostic agents. The proteins can serve as immunogens to raise antibodies for use in the diagnosis and identification of NAP concn. levels in biological fluids, e.g. to detect mammalian infection with a parasitic worm.
americanus or Heligomosmoides polygyrus. The proteins pref. have 2 NAP domains and specifically inhibit the catalytic activity of the factor VIIIa/TF complex in the presence of factor Xa or a catalytically inactive factor Xa deriv., do not specifically inhibit the activation of factor VIIa in the absence of TF and do not specifically inhibit prothrombinase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The anticoagulant proteins are pref. derived from Ancylostoma caninum, A. ceylanicum, A. duodenale, Necator americanus or Heligomosmoides polygyrus.

The proteins pref. have 2 NAP domains and specifically inhibit the catalytic activity of the factor VIIa/TF complex in the presence of factor Ya or a catalytically inactive factor Ya deriv., do not specifically inhibit the activation of factor VIIa in the
                                                                                                                                                                                                                                                                               They can also be used as immunogens in prophylactic and therapeutic vaccines against parasitic worm infection. The proteins may double the clotting time of human plasma in prothrombin time assays when present at 10-50 nMol, and double the clotting time of human plasma in activated partial thrombin time assays when present at 10-100 nMol.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AcaNAP; HpoNAP; NamNAP; AceNAP; AduNAP; anticoagulant; nematode-extracted anticoagulant protein; serine protease; nematode; thrombosis; parasitic worm.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      when
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 221; Fig 7D; 243pp; English. Proteins with anticoagulant and/or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Proteins with anticoagulant and/or serine protease inhibitory activity - isolated from nematodes and useful to inhibit blood
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N-PSDB; T12960.
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R91714 standard; Protein; 76
                                                                                                                                                                                                          The anticoagulant proteins are pref. derived from Ancylostoma caninum, A. ceylanicum, A. duodenale,
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| 42 YEQCQRRCESEATEEREQEQCEQR-C
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nes 11; Conser
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Pred. No. 1.35e+00;
7; Mismatches 6
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Moyle M, Stanssens PEH;
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                                                                                                                                                                                                                 Necator
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18-OCT-1994; US-326110.

05-JUN-1995; US-4486391.

05-JUN-1995; US-4461965.

05-JUN-1995; US-446397.

05-JUN-1995; US-446380.

(CORV-) CORVAS INT INC.
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R91713;
17-NOV-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 221; Fig 7E; 243pp; English.

Proteins with anticoagulant and/or serine protease inhibitory activity, isolated from nematodes, are useful to inhibit blood coagulation. The proteins can be added to blood collection tubes defining the collection of mammalian plasma. They are also useful to prevent or inhibit thrombosis, and may be given alone or in combination with other therapeutic or in vivo diagnostic agents. The proteins can serve as immunogens to raise antibodies for use in the diagnosts and identification of NAP conce. levels in biological fluids, e.g. to detect mammalian infection with a parasitic worm. They can also be used as immunogens in prophylactic and therapeutic vaccines against parasitic worm infection. The proteins may
                                                                                                                              The anticoagulant proteins are pref. derived from Ancylostoma caninum, A. ceylanicum, A. duodenale, Necator americanus or Heligomosmoides polygyrus.

The proteins pref. have 2 NAP domains and specifically inhibit the catalytic activity of the factor VIIa/TF complex in the presence of factor xa or a catalytically inactive factor Xa deriv., do not specifically inhibit the activation of factor VIIa in the absence of TF and do not specifically inhibit prothrombinase.
                                                                                                                                                                                                                                                                                                                                                                                    double the clotting time of human plasma in prothrombin time assays when present at 10-50 nMol, and double the clotting time of human plasma in activated partial thrombin time assays when present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Proteins with anticoagulant and/or serine protease inhibitory activity - isolated from nematodes and useful to inhibit blood
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 96-222007/22.
N-PSDB; T12959.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO9612021-A2.
25-APR-1996.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             coagulation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Bergum PW, Gansemans YGJ,
Lauwereys MJ, Messensjhl,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          nematode; thrombosis; parasitic worm.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Vlasuk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         nematode-extracted anticoagulant
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AduNAP7.
                                                                                                                                                                                                                                                                                                                                                               at 10-100 nMol.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ancylostoma
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                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Similarity
11; Conse
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                                                                                                                180 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /label= AduNAP7d1
103. .180**
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /label=
                         25.5%;
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Score 92; DI
Pred. No. 1.9
5; Mismatcl
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Pred. No.
8; Misma
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Moyle M, Stanssens PEH;
     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
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1.95e+00;
                            95e+00
                                                      Length 180
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  Indels
  2;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             coagulation
Claim 221; Fig 13G; 243pp; English.
Coagulation with anticoagulant and/or serful to inhibit blood collection tubes defining the collection of mammalian plasma. They are also useful to prevent or inhibit thrombosis, and may be given alone or in combination with other therapeutic or in vivo diagnostic agents.
Combination with other therapeutic or in vivo diagnostic agents.
Combination with other therapeutic or in vivo diagnostic agents.
Combination with other therapeutic or in vivo diagnostic agents.
Combination with other therapeutic or in vivo diagnostic agents.
Combination with other therapeutic or the diagnosis and identification of NAP concn. levels in biological individuals.
Combination with other therapeutic vaccines against parasitic worm infection with a parasitic worm.
Combination with a parasitic worm infection. The proteins may observe the clotting time of human plasma in activated partial thrombin time assays when present at 10-50 nMol, and double the clotting time of human plasma in activated partial thrombin time assays when present at 10-100 nMol.
                                                                                                                                                                                                                                                                                                                         Query Match 25.2%;
Best Local Similarity 46.2%;
Matches. 12; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  25-APR-1996.
17-OCT-1995; U13231.
18-OCT-1994; US-326110.
05-JUN-1995; US-486399.
05-JUN-1995; US-461965.
05-JUN-1995; US-486397.
05-JUN-1995; US-465380.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The anticoagulant proteins are pref. derived from Ancylostoma caninum, A. ceylanicum, A. duodenale, Necator americanus or Heligomosmoides polygyrus.

The proteins pref. have 2 NAP domains and specifically inhibit the catalytic activity of the factor VIIa/TF complex in the presence of factor Xa or a catalytically inactive factor Xa deriv., do not specifically inhibit the activation of factor VIIa in the absence of TF and do not specifically inhibit prothrombinase.
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ACANAP; HONAP; NamNAP; ACENAP; AduNAP; anticoagulant; nematode-extracted anticoagulant protein; serine protease; nematode; thrombosis; parasitic worm.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          R91712 standard; Protein; 181 AA.
R91712;
17-NOV-1996 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
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N-PSDB; T12958.
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WPI; 96-22
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Bergum PW, Gansemans YGJ,
Lauwereys MJ, Messensjhl,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ancylostoma caninum.
                                                                                                                                                                                                                                            118 YKOCERKC-SEELSEKNEEACLSRAC 142
                                                                                                                                                                  42
                                                                                                                                                              YEQCORRCESEATEEREQEQCEQR-C 66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        181 AA;
                                                                                                                                                                                                                                                                                                                         Score 91; DB 1; I
Pred. No. 2.34e+00;
5; Mismatches 7
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Moyle M, Stanssens PEH;
                                                                                                                                                                                                                                                                                                                                                                                                      Length 181;
                                                                                                                                                                                                                                                                                                                             7; Indels
                                                                                                                                                                                                                                                                                                                         2;
                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                         2;
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